

Substitute for form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/589,971-Conf. #2321
		Filing Date	July 2, 2007
		First Named Inventor	Graham Eastham
		Art Unit	1621
		Examiner Name	P. A. Zucker
Sheet	1	of	6
		Attorney Docket Number	31229-233960

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA*	US-4,377,708	03-22-1983	Morris	
	AB*	US-4,500,727	02-19-1985	Kitamura et al.	
	AC*	US-4,517,061-A	05-14-1985	Jean-Francois Fauvarque	
	AD*	US-4,900,413-A	02-13-1990	Masato TANAKA et al.	
	AE*	US-5,245,098-A	09-14-1993	Fernando J. HAMILTON et al.	
	AF*	US-6,348,621-B1	02-19-2002	Wang et al.	
	AG*	US-4,504,684	03-12-1985	Joseph R. FOX et al.	
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	AJ*	US-20040162440	08-19-2004	Bunel et al.	
	AK*	US-5,563,308	10-08-1996	Spindler et al.	
	AL*	US-5,760,264	06-02-1998	Brieden	
	AM*	US-5,783,715	07-21-1998	Pugin	
	AN*	US-6,015,919	01-18-2000	Pugin	
	AO*	US-6,169,192	01-02-2001	Pugin et al.	
	AP*	US-6,191,284	02-20-2001	Knochel et al.	
	AQ*	US-6,258,979	07-10-2001	Kagan et al.	
	AR*	US-6,284,925	09-04-2001	Knochel et al.	
	AS*	US-6,337,406	01-08-2002	Zhang	

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	BA	EP-0144118	06-12-1985	Standard Oil Co Ohio	
	BB	WO-0170659	09-27-2001	Kvaerner Process Tech Ltd et al.	
	BC	WO-0212161	02-14-2002	Kvaerner Process Tech Ltd et al.	
	BD	WO-2004/050599-A1	06-17-2004	Lucite Int Uk Ltd et al.	
	BE	WO-03/070370-A1	08-28-2003	Shell Int Research et al.	
	BF	WO-2004/014552-A1	02-19-2004	Lucite Int Uk Ltd et al.	

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	AT*	US-6,521,769	02-18-2003	Zhang	
	AU*	US-6,307,065	10-23-2001	Tjaden et al.	

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	BG	WO-2005/003070-A1	01-13-2005	Lucite Int Uk Ltd et al.	
	BH	WO-2004/024322-A2	03-25-2004	Lucite Int Uk Ltd et al.	
	BI	WO-99/47528-A1	09-23-1999	Ici Plc et al.	
	BJ	WO-2005/079981-A1	09-01-2005	Lucite Int Uk Ltd et al.	
	BK	WO-98/41495	09-24-1998	IMPERIAL CHEMICAL INDUSTRIES PLC	
	BL	WO-98/42717	10-01-1998	Shell Internationale Research	
	BM	WO-04/103948	12-02-2004	Shell Internationale	
	BN	WO-05/082830	09-09-2005	Shell Internationale Research	
	BO	JP-08134218-A	05-28-1996	Agency Ind Science Techn	
	BP	EP-0577205-A2	01-05-1994	Shell Int Research	
	BQ	EP-0728733-A1	08-28-1996	Dsm Nv et al.	
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	BS	FR-2034147-A5	12-11-1970	Inst Francais Du Petrole	
	BT	EP-0683764-A1	11-29-1995	Shell Int Research	
	BU	WO-01/85662-A2	11-15-2001	Basf Ag et al.	

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	CA	WANG et al., "POLYMER-BOUND BIDENTATE-PHOSPHINE-PALLADIUM COMPLEX AS A CATALYST IN THE HECK ARYLATION", J. Org. Chem, Vol. 59, No. 18, 1994, pages 5358-5364.	
	CB	HOFMANN et al., "BIS(DI-T-BUTYLPHOSPHINO)METHANE COMPLEXES OF RHODIUM: HOMOGEOUS ALKYNE HYDROSILYLATION BY CATALYST-DEPENDENT ALKYNE INSERTION INTO Rh-Si OR Rh-H BONDS. MOLECULAR STRUCTURES OF THE DIMER [(dtbpm) RhCl] <sub>2</sub> AND OF THE SILYL COMPLEX (dtbpm) Rh[Si(OEt) <sub>3</sub> (PMes) <sub>3</sub> ]", Journal of Organometallic Chemistry, Vol. 490, 1995, pages 51-70.	
	CC	LINDNER et al., "CATALYTIC ACTIVITY OF CATIONIC DIPHOSPALLADIUM (III) COMPLEXES IN THE ALKENE/CO COPOLYMERIZATION IN ORGANIC SOLVENTS AND WATER IN DEPENDENCE ON THE LENGTH OF THE ALKYL CHAIN AT THE PHOSPHINE LIGANDS", Journal of Organometallic Chemistry, Vol. 602, 2000, pages 173-187.	
	CD	RICHMOND et al., "PREPARATION OF NEW CATALYSTS BY THE IMMOBILIZATION OF PALLADIUM(II) SPECIES ONTO SILICA: AN INVESTIGATION OF THEIR CATALYTIC ACTIVITY FOR THE CYCLIZATION OF AMINOALKYNES", J. Am Chem. Soc., Vol. 123, 2001, pages 10521-10525.	
	CE	TAMAO et al., "ALKYL GROUP ISOMERIZATION IN THE CROSS-COUPPLING REACTION OF SECONDARY ALKYL GRIGNARD REAGENTS WITH ORGANIC HALIDES IN THE PRESENCE OF NICKEL-PHOSPHINE COMPLEXES AS CATALYSTS", Journal of the American Chemical Society, Vol. 94, 1972, pages 9268-9269.	
	CF	JONES et al., "RHODIUM-CATALYZED ACTIVATION AND FUNCTIONALIZATION OF THE C-C BOND OF BIPHENYLENE", Organometallics, Vol. 20, 2001, pages 5745-5750.	
	CG	Kirk Othmer Encyclopaedia of Chemical Terminology, vol. 9, 4th Ed., p. 783, Hydrolysis of Organic Esters, pp. 783-85 and 87, John Wiley & Sons, January 1994.	
	CH	MASTERS, Christopher, "Homogeneous Transition Metal Catalysis," p. 4-21, Chapman and Hall, February, 1981.	
	CI	Lide et al., Handbook of Chem and Phys., 76th Ed., CRC Press, 1995, ps. 8-141 6-155 to 6-177; 15-16 to 15-25	
	CJ	CLEGG, W. ET AL: "Highly active and selective catalysts for the production of methyl propanoate via the methoxycarbonylation of ethene" CHEM. COMMUN., 1999, pages 1877-1878	
	CK	KNIGHT ET AL: "Remarkable Differences in Catalyst Activity and Selectivity to the production of Methyl Propanoate versus CO-Ethylene Copolymer by a Series of palladium Complexes of Related C4-Bridged Diphosphines" Organometallics 2000, 19 4957-4967	
	CL	ADAM J. RUCKLIDGE ET AL.: "Methoxycarbonylation of vinyl acetate catalysed by palladium complexes of bis (di-tertiarybutylphosphinomethyl) benzene and related ligands" CHEM. COMMUN., 2005, pages 1176-1178	

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	CM	Brunkan et al. "Effect of chiral cavities associated with molecularly imprinted platinum centers on the selectivity of ligand-exchange reactions at platinum", Journal of American Chemical Society, no. 22, pages 6217-6225, (2000).	
	CN	Brunkan et al. "Unorthodox C,O binding mode of Me2BINOL in Pt(II) complexes", Journal of American Chemical Society, no. 120, pages 11002-11003, (1998).	
	CO	Andrews et al. "Regioselective complexation of unprotected carbohydrates by Platinum(II); Synthesis, structure, complexation equilibria, and hydrogen-bonding in carbonate-derived bis(phosphine)platinum(II) diolate and aldolate complexes", Journal of American Chemical Society, no. 116, pages 5730-5740, (1994).	
	CP	Hartwig, et al. "Structure and reactions of oxametallacyclobutenes and oxametallacyclobutenes of ruthenium", Organometallics, vol. 10, no. 9, pages 3344-3362 (1991)	
	CQ	Konno et al. "Preparation and spectroscopic characteristics of geometrical isomers of bis[1,2-bis(dimethylphosphino)ethane]cobalt(III) complexes with thiolate ligands", The Chemical Society of Japan, no. 62, pages 3475-3478, (1989).	
	CR	Cecconi et al. "Palladium complexes with the tripodal phosphine tris(2-diphenylphosphinoethyl)amine. Synthesis and structure of trigonal, tetrahedral, trigonal bipyramidal, and square planar complexes", J. Chem. Soc. Dalton Trans., issue 1, pages xvii - xx, (1989).	
	CS	Miskowski et al. "Preparation and spectroscopic properties of Cobalt(III) complexes containing phosphine ligands. The electronic structural description of side-bonded dioxygen", Journal of American Chemical Society, vol. 98, no. 9, pages 2477-2483, (1976).	
	CT	Hayward et al. "Some reactions of peroxobis (triphenylphosphine)platinum(II) and analogs with carbon dioxide, carbon disulfide, and other unsaturated molecules", Journal of American Chemical Society, vol. 92, issue 20, pages 5873-5878, (1970).	
	CU	Osman, Serindag "Synthesis of some platinum(II) diphosphine complexes of the type [PtX2(P-P)] (X2 = CO3; X = CH3COO, CF3COO, NCO)", Synth. React. Inorg. Met.-Org. Chem., vol. 27, no. 1, pages 69-76, (1997).	
	CV	Andrews et al. "Syntheses, spectra and structures of (diphosphine)platinum(II) carbene complexes" Inorganic Chemistry, no. 35, pages 5478-5483, (1996).	
	CW	Latif et al. "Square planar platinum(II) complexes, crystal structures of cis-bis(triphenylphosphine) hydro(triphenylstannyl) platinum(II) and cis-bis(triphenylphosphine) hydro(triphenylsilyl) platinum(II)", Journal of Organometallic Chemistry, no. 474, pages 217-221, (1994).	
	CX	Becker et al. "Synthesis and characterization of chiral diphosphine platinum(II) VANOL and VAPOL complexes", Organometallics, no. 22, pages 3245-3249, (2003).	

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	CY	Becker et al. "Imprinting chiral information into rigidified dendrimers", <i>Organometallics</i> , no. 22, pages 4984-4998, (2003).		
	CZ	Peng et al. "Chiral rodlike platinum complexes, double helical chains and potential asymmetric hydrogenation ligand based on "linear" building blocks: 1,8,9,16-tetrahydroxytetraphenylene and 1,8,9,16-tetrakis(diphenylphosphino)tetraphenylene" <i>Journal of American Chemical Society</i> , no. 127, pages 9603-9611, (2005).		
	CA1	Wen et al. "Synthesis, resolution, and applications of 1,16-dihydroxytetraphenylene as a novel building block in molecular recognition and assembly", <i>Journal of Organic Chemistry</i> , no. 68, pages 8918-8931, (2003).		
	CB1	Mikami et al. "Molecular design of DABNTf as a highly efficient resolving reagent for racemic Pd complex with <i>tropos</i> biphenylphosphine (BIPHEP) ligand: circular dichroism (CD) spectra of enantiopure BIPHEP-Pd complex", <i>Chirality</i> , no. 15, pages 105-107, (2003).		
	CC1	Tudor et al. "Diastereoisomer interconversion in chiral BiphepPtX <sub>2</sub> complexes", <i>Organometallics</i> , no. 19, pages 4376-4384, (2000).		
	CD1	Bellabarba et al., "Synthesis, X-ray characterization and reactions of a trigonal planar palladium(I) carbonyl complex", <i>Chemical Communications</i> , no. 15, pages 1916-1917, (2003).		
	CE1	Clegg et al., "Synthesis and reactivity of palladium hydrido-solvent complexes, including a key intermediate in the catalytic methoxycarbonylation of ethane to methylpropanoate", <i>Journal of the Chemical Society, Dalton Transactions</i> , no. 17, pages 3300-3308 (2002).		
	CF1	Clegg et al., "Characterisation and dynamics of [Pd(L-L)H(solvent)] <sup>+</sup> , [Pd(L-L)(CH <sub>2</sub> CH <sub>3</sub> )] <sup>+</sup> and [Pd(L-L)(C(O)Et)(THF)] <sup>+</sup> (L-L = 1,2-(CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>4</sub> ); key intermediates in the catalytic methoxycarbonylation of ethane to methylpropanoate", <i>Organometallics</i> , vol. 21, no. 9, pages 1832-1840 (2002).		
	CG1	Edelbach et al., "Catalytic hydrogenolysis of biphenylene with platinum, palladium, and nickelphosphine complexes", <i>Organometallics</i> , vol. 17, no. 22, pages 4784-4794 (1998).		
	CH1	Kim et al., "Synthesis and theoretical study of palladium (II) complexes with aminophosphines as 7-membered chelate rings", <i>Bulletin of the Korean Chemical Society</i> , vol. 18, no. 11, pages 1162-1166 (1997).		
	CI1	Reddy et al., "Unexpected cross-metathesis between Si-C and Si-Si bonds", <i>Chemical Communications</i> , no. 16, pages 1865-1866 (1996).		
	CJ1	Uchimaru et al., "Ring-opening polymerization of 1,1,2,2-tetramethyl-1,2-disilacyclopentane via palladium complex-catalysed Si-Si bond metathesis", <i>Chemistry Letters</i> , no. 2, page 164 (1995).		

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	CK1	Portnoy et al., "Reactions of electron-rich arylpalladium complexes with olefins. Origin of the chelate effect in vinylation catalysis", <i>Organometallics</i> , vol. 13, no. 9, pages 3465-3479 (1994).	
	CL1	Wurst et al., "Synthesis and structure of the platinum (0) compounds [(dipb)Pt(2)(COD)] and [(dipb)Pt(2) and of the cluster Hg <sub>6</sub> [Pt(dipb)] <sub>4</sub> (dipb = (iPr) <sub>2</sub> P(CH <sub>2</sub> ) <sub>4</sub> P(iPr) <sub>2</sub> )", <i>Zeitschrift Für Anorganische Und Allgemeine Chemie</i> , vol. 395, pages 239-250 (1991).	
	CM1	Tanaka et al., "Synthesis of ketones via carbonylation of organic halides. II. Palladium-catalysed carbonylation of organic halides with terminal acetylenes in the presence of amines. Novel acetylenic ketone synthesis", <i>Nippon Kagaku Kaishi</i> , no. 3, pages 537-546 (1985).	
	CN1	Molander et al., "Synthesis and application of chiral cyclopropane-based ligands in palladium-catalyzed allylic alkylation", <i>Journal of Organic Chemistry</i> , vol. 69, no. 23, pages 8062-8069 (2004).	
	CO1	Brauer et al., "Reactions of coordinated ligands. XIV. Synthesis of a tetradentate phosphorus macrocycle in a palladium (II) template", <i>Chemische Berichte</i> , vol. 119, no. 1, pages 349-365 (1986).	
	CP1	Dias et al., "Synthesis and characterization of .eta.5-monocyclopentadienyl (p-nitrobenzonitrile)ruthenium(II) salts: second harmonic generation powder efficiencies", <i>Journal of Organometallic Chemistry</i> , vol. 475, no. 1-2, pages 241-245 (1994).	
	CQ1	PUGH, R. I. et al. "Tandem isomerisation-carbonylation catalysis: highly active palladium(II) catalysts for the selective methoxycarbonylation of internal alkenes to linear esters", <i>Chemical Communications - CHEMCOM</i> , Royal Society of Chemistry, GB, no. 16, (August 21, 2001), pages 1476-1477.	
	CR1	Cullen et al. "Structure of the Hydrogenation Catalyst [(PP)Rh(NBD)]ClO <sub>4</sub> , (PP) = (5-[(CH <sub>3</sub> ) <sub>3</sub> C] <sub>2</sub> PC <sub>5</sub> H <sub>4</sub> ) <sub>2</sub> Fe, and Some Comparative Rate Studies," <i>Organometallics</i> , vol. 2, pp. 714-719, 1983.	
	CS1	Abbenhuis et al., "Successful Application of a "Forgotten" Phosphine in Asymmetric Catalysis: A 9-Phosphabicyclo[3.3.1]non-9-yl Ferrocene Derivative as a Chiral Ligand," <i>Organometallics</i> , vol. 14, pp. 759-766, 1995.	

Examiner Signature	Date Considered
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<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609 Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

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Substitute for form 1449/PTO			<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			Application Number	10/589,971-Conf. #2321	
			Filing Date	July 2, 2007	
			First Named Inventor	Graham Eastham	
			Art Unit	1625	
			Examiner Name	Not Yet Assigned	
Sheet	1	of	3	Attorney Docket Number	31229-233960

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.*	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA*	US-2006/0106259 A1	06-18-2006	Eastham et al	
	AB*	US-5,149,868	09-22-1992	Drent	
	AC*	US-5,436,356	07-25-1995	Drent et al.	
	AD*	US-4,960,926	10-02-1990	Drent	
	AE*	US-5,258,546	11-02-1993	Klusener et al.	
	AF*	US-5,189,003	02-23-1993	Klusener et al.	
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Examiner Initials*	Cite No.*	Foreign Patent Document Country Code <sup>3</sup> Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	†
	BA	WO-01/65583-A1	09-07-2001	Siemens Ag et al.		
	BB	EP-0495348-A1	07-22-1992	Koenig Wolfgang		
	BC	EP-0495347-A1	07-22-1992	Analisis Sa		
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	BE	DE-10037961-A1	02-07-2002	Aventis Res & Tech GmbH & Co	US 7,148,176	
	BF	DE-19745904-A1	04-22-1999	Hoechst Ag	US 6,462,095	

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Sheet	2	of	3	Attorney Docket Number	31229-233960

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number/Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AT*	US-6,982,357	01-03-2006	Crabtree et al.	
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	AV*	US-20060128985	06-15-2006	Eastham et al.	
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	AY*	US-6,984,668	01-10-2006	Eastham et al.	
	AZ	US-WO 98/41495	09-24-1998	PEARSON JEAN MARGARET ET AL.	
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	AB1*	US-6,335,471	01-01-2002	Eastham et al.	
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	AD1*	US-7,265,240	09-04-2007	Eastham et al.	
	AE1*	US-4,960,949	10-02-1990	Devon et al.	
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	AI1*	US-7,371,705	05-13-2008	Eastham et al.	
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	AG1*	US-6,753,450	06-22-2004	Ahlers et al.	
	AH1*	US-7,148,176	12-12-2006	Beller et al.	
	AJ1*	US-6,462,095	10-08-2002	Bonsel et al.	

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		Country Code <sup>3</sup> -Number <sup>2</sup> -Kind Code <sup>2</sup> (if known)			
	BG	DE-19754304-A1	06-10-1999	Hoechst Ag	US 6,391,818
	BH	EP-0375573-A1	06-27-1990	Eastman Kodak Co	
	BI	EP-0879642-A2	11-25-1998	Hoechst Res & Tech GmbH & Co	
	BJ	GB-2006208-A	05-02-1979	Monsanto Co	
	BK	WO-01/28972-A1	04-26-2001	Shell Int Research et al.	

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Substitute for form 1449/PTO			<b>Complete If Known</b> Application Number 10/589,971 -Conf. #2321 Filing Date July 2, 2007 First Named Inventor Graham Eastham Art Unit 1625 Examiner Name Not Yet Assigned Attorney Docket Number 31229-233960	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				
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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
	CA*	Related U.S. Patent Application No. 10/524,023, filed November 17, 2005, Eastham et al.			
	CB	OLAH, GEORGE A., <i>et al.</i> , "AlCl <sub>3</sub> -Catalyzed Dichlorophosphorylation of Saturated Hydrocarbons with PCls in Methylene Chloride Solution," <i>J. Org. Chem.</i> , 1990, 55, 1224-1227.			
	CC	WEI-YONG YU, <i>et al.</i> , "Preparation of Polymer-Protected Pt/Co Bimetallic Colloid and its Catalytic Properties in Selective Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol," <i>Polymers FOR Advanced Technologies</i> , GB, John Wiley and Sons, Chichester, August 1, 1996, 719-722, Vol. 7, no. 8.			
Examiner Signature:				Date Considered	

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